

CLAIMS

1. A two-dimensional image display device comprising:

a red light source for emitting red light;

a green light source for emitting green light;

a blue light source for emitting blue light; and

a means for forming a two-dimensional image by using the lights emitted from the respective light sources of the three colors;

wherein the center wavelength of said blue light source is not less than 420nm and not larger than 455nm.

2. A two-dimensional image display device as defined in Claim 1 wherein

the center wavelength of said red light source is not less than 635nm and not larger than 655nm, and

the center wavelength of said green light source is not less than 505nm and not larger than 550nm.

3. A two-dimensional image display device as defined in Claim 1 wherein

the ratio of light output from the blue light source to light output from the green light source during white display is not less than 0.5:1 and not larger than 4:1, and

the ratio of light output from the red light source to light

output from the green light source during white display is not less than 0.4:1 and not larger than 1.3:1.

4. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said red light source is not less than 635nm and not larger than 655nm.

5. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said green light source is not less than 505nm and not larger than 550nm.

6. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said blue light source is not less than 440nm and not larger than 455nm.

7. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said blue light source is not larger than 440nm.

8. A two-dimensional image display device as defined in Claim 1 wherein said blue light source is a semiconductor laser based on gallium nitride.

9. A two-dimensional image display device as defined in Claim 1 wherein said red light source is a semiconductor laser based on

AlGaInP.

10. A two-dimensional image display device as defined in Claim 1 wherein light emitted from each light source has a spectrum width equal to or smaller than that of a semiconductor laser source.